

## Species Vulnerability Indices

Alternatives to "DIY"

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## Species are Important!




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## Vulnerability Indices can...

- ... save R & D time
- ... remind you about vulnerability factors
- ... compare apples and oranges
- ... promote transparency

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## Vulnerability Indices cannot...

... turn garbage into gold

... replace in-depth VAs of species

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System for Assessing Vulnerability of Species (SAVS) to Climate Change (Forest Service)



Framework for categorizing the relative vulnerability of threatened & endangered species to climate change (EPA)



Climate Change Vulnerability Index (NatureServe)



Climate Change Sensitivity Index (University of Washington and TNC)




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All:

are potentially rapid

score individual factors

produce categories of relative vulnerability

address uncertainty

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## SAVS



[www.fs.fed.us/rm/grassland-shrubland-desert/products/species-vulnerability](http://www.fs.fed.us/rm/grassland-shrubland-desert/products/species-vulnerability)

Terrestrial vertebrates

Habitat, physiology, phenology, biotic interactions

Abundance, range, demographics considered implicitly

Scale: habitat/management area

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## EPA



<http://cfpub.epa.gov/ncea/cfm/recorddisplay.cfm?deid=203743>

T&E Vertebrates Only

Baseline & climate change vulnerability

Abundance, range, demographics considered in baseline

Spatial Scale: any

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## NatureServe



[www.natureserve.org/climatechange](http://www.natureserve.org/climatechange)

Terrestrial/aquatic, plants/animals

Excludes conservation status factors – use in conjunction with G/S-ranks

Exposure and sensitivity sections

Scale: state or large conservation area

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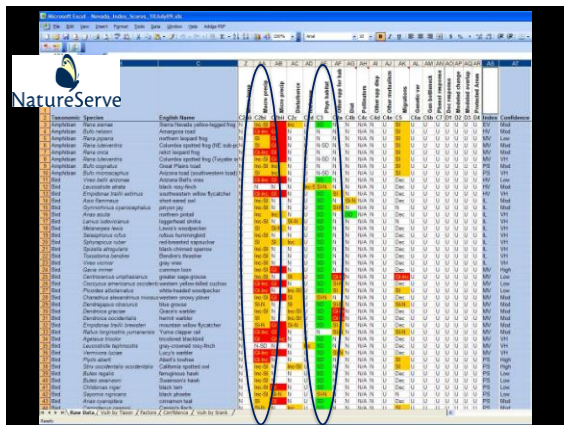
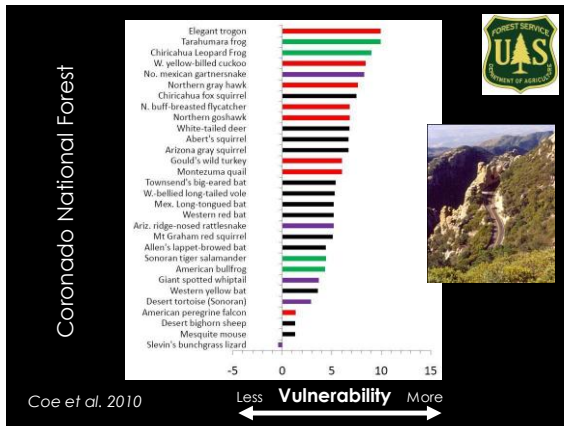
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## Duplicate Conservation Status Assessments?

Extremely Vulnerable	Highly Vulnerable	Moderately Vulnerable	Presumed Stable	Increase Likely
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G1

G2

G3

G4

G5

## Duplicate Conservation Status Assessments?

	Extremely Vulnerable	Highly Vulnerable	Moderately Vulnerable	Presumed Stable	Increase Likely
G1					
G2					
G3					
G4					
G5					




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209 spp

	Extremely Vulnerable	Highly Vulnerable	Moderately Vulnerable	Presumed Stable	Increase Likely
G1	10	11	25	9	0
G2	2	4	5	3	1
G3	0	4	3	11	1
G4	1	1	6	24	3
G5	0	2	7	61	15

$p < 0.001$




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## Climate Sensitivity Database

Climate Change Sensitivity Database

[Home](#) [Browse Species](#) [Browse Systems](#) [Your Profile](#)

### Home Page

**Welcome!**  
Welcome to the Sensitivity Database.

Climate change poses a daunting challenge to natural resource managers and in response the University of Washington has partnered with key collaborators to conduct a climate change sensitivity assessment. This assessment is designed to evaluate the sensitivity of the species and ecological systems of the Pacific Northwest to climate change.

This digital database summarizes the inherent climate-change sensitivities for species and habitats of concern throughout the Pacific Northwest and will provide resource managers and decision makers with some of the most basic and most important information about how species and systems will likely respond to climate change.

Please come take a look!

### Recent Updates

**Rock Sucker**  
Updated: 4 days ago  
**Eggsia viridula princeps**  
Updated: 4 days 18 hours ago  
**Quercus garryana var. garryana**  
Updated: 2 weeks 5 days ago  
**Pinus strobus**  
Updated: 2 weeks 6 days ago  
**Red-tailed Chipmunk**  
Updated: 3 weeks 5 days ago  
**Phlebotomus stansburiana**  
Updated: 3 weeks 5 days ago  
**Malva parviflora**  
Updated: 3 weeks 6 days ago  
**Vulpes macrotis - ravenbergi**  
Updated: 4 weeks 1 day ago  
**Lupinus nanus**  
Updated: 4 weeks 1 day ago

### User Login

Username: \*

Password: \*

☐ Log in using OpenID

☐ Create new account

☐ Request new password

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